

Title (en)

RAILWAY OR TRAMWAY RAIL AND RAIL FASTENING SYSTEM

Title (de)

EISEN- ODER STRASSENBAHNSCHIENE UND IHRE BEFESTIGUNG

Title (fr)

RAIL DE CHEMIN DE FER OU DE TRAMWAY ET SYSTEME DE FIXATION DE RAIL

Publication

EP 1155194 B1 20050406 (EN)

Application

EP 99925168 A 19990528

Priority

- GB 9901705 W 19990528
- GB 9811591 A 19980530

Abstract (en)

[origin: WO9963160A1] A railway or tramway rail fastening system includes a shell (2) and a resilient fill (4) within the shell for holding a rail (1), the shell having an inner profile open channel form to receive the rail, the inner profile being shaped to hold firmly, through the fill (4), the head and base region and/or an intermediate portion of the rail. The arrangement is such that pinch points are produced which hold the rail in place.

IPC 1-7

E01B 9/60; **E01B 9/62**

IPC 8 full level

E01B 3/00 (2006.01); **E01B 9/62** (2006.01); **E01B 9/60** (2006.01)

CPC (source: EP US)

E01B 9/62 (2013.01 - EP US); **E01B 21/00** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9963160 A1 19991209; AT E292710 T1 20050415; AU 4155699 A 19991220; AU 752198 B2 20020912; BG 105044 A 20010831; BG 63950 B1 20030731; BR 9910852 A 20011009; CA 2333559 A1 19991209; CA 2333559 C 20040511; CN 1214156 C 20050810; CN 1310775 A 20010829; CZ 20004406 A3 20020213; CZ 296446 B6 20060315; DE 69924646 D1 20050512; DE 69924646 T2 20060302; DK 1155194 T3 20050808; EE 04244 B1 20040216; EE 200000715 A 20020815; EP 1155194 A1 20011121; EP 1155194 B1 20050406; ES 2239443 T3 20050916; GB 9811591 D0 19980729; HK 1041031 A1 20020628; HK 1041031 B 20050630; HU P0104813 A2 20020429; HU P0104813 A3 20020528; IL 139986 A0 20020210; JP 2004500496 A 20040108; JP 4256589 B2 20090422; MX PA00011902 A 20021017; NO 20006045 D0 20001129; NO 20006045 L 20010130; PL 344582 A1 20011105; PT 1155194 E 20050831; RU 2238361 C2 20041020; SK 18042000 A3 20011203; SK 286504 B6 20081205; TR 200003538 T2 20010621; UA 67777 C2 20040715; US 6616061 B1 20030909

DOCDB simple family (application)

GB 9901705 W 19990528; AT 99925168 T 19990528; AU 4155699 A 19990528; BG 10504400 A 20001211; BR 9910852 A 19990528; CA 2333559 A 19990528; CN 99808976 A 19990528; CZ 20004406 A 19990528; DE 69924646 T 19990528; DK 99925168 T 19990528; EE P200000715 A 19990528; EP 99925168 A 19990528; ES 99925168 T 19990528; GB 9811591 A 19980530; HK 02102928 A 20020418; HU P0104813 A 19990528; IL 13998699 A 19990528; JP 2000552348 A 19990528; MX PA00011902 A 19990528; NO 20006045 A 20001129; PL 34458299 A 19990528; PT 99925168 T 19990528; RU 2000130194 A 19990528; SK 18042000 A 19990528; TR 200003538 T 19990528; UA 00116835 A 19990528; US 70107300 A 20001121